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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,408	03/11/2005	Wayne Conrad	12800-30/PMdC 4779	
1059 BERESKIN AN	7590 10/27/200 <b>ND PARR</b>	EXAMINER		
40 KING STREET WEST			CECIL, TERRY K	
BOX 401 TORONTO, ON	N M5H 3Y2		ART UNIT	PAPER NUMBER
CANADA			1797	
			MAIL DATE	DELIVERY MODE
			10/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/527,408	CONRAD, WAYNE				
Office Action Summary	Examiner	Art Unit				
	Mr. Terry K. Cecil	1797				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period variety or period for reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>7-24-</u>	-2008.					
	action is non-final.					
· <u> </u>						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,2 and 4-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>7-24-2008</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	_					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6)					

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Claims 1-2 and 4-11 remain in the application and have been rejected hereinbelow.

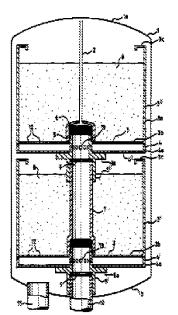
## DETAILED ACTION

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2, 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by GB2,276,330, hereinafter "330". '330 teaches a water treatment apparatus including two containers (cups 3), an inlet 11 and an outlet 10. Each of the cups includes sand, an inlet



defined by rim 3c, and an outlet (5' and 5") including an outlet seal

- 9. The cups are removable (page 5, lines 1-9) [as in claims 1-2 and 4-
- 5]. Water entering inlet 11 flows to the top of the drum into inlet 3c of the top cup and flows through the sand and the container 3 to an upper set of apertures 13. This treated water then flows through tube 7 which extends through the lower cup necessitating that the water also flow through the lower cup [as in claim 6].

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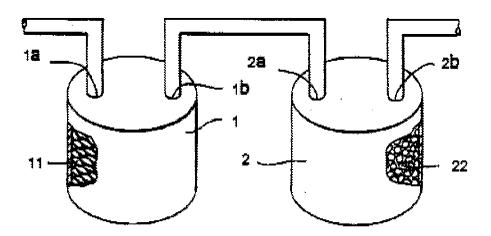
## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-2, 4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holland (U.S. 5,662,801) in view of Gershon et al. (U.S. 5,427,683) and Kool (U.S. 5,344,558).

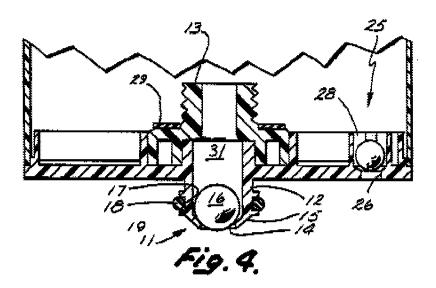


Holland teaches a serial flow arrangement for filtering water that includes an water (left side of figure), an outlet (right side of figure), a plurality of containers including a respective inlet and outlet port (1a, 1b, 2a, 2b) and wherein at least the first container contains sand (col. 4, line 25).

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Holland teaches his second container includes a straitified arrangement of activated carbon absorbent but isn't explicit that the second container includes sand. However, Gershon et al. teaches sand as well as activated carbon as water treating absorbents (col. 1. line 67 to col. 2, line 2) [as in claim 1]. It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the sand of Gershon in the second container of Holland, since Gershon teaches sand to also be an absorbent for treating water and simple substitution is within ordinary skill; or having sand along with the carbon in the stratified filtering material in the second container would be within ordinary skill since such would provide the benefit of absorbing a wider variety of contaminants.

Holland in view of Gershon doesn't teach the filtering elements to be individually removable and including the inlet and outlet ports to have sealing elements. However such is taught by Kool. Kool teaches serial treatment of water including a removable container including inlet and outlet ports having sealing elements (16, 27) that seal the ports when the container is removed [as in claims 1-2, 4 and 7-8].



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It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the serial containers of the modified Holland to be configured as in Kool to be removable and include the sealing inlet and outlet ports thereof, since Kool teaches the benefit of preventing water leakage during filter replacement (col. 1, lines 15-19).

- 5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over either of the rejections in sections 2 or 4 above, and in further view of Simpson et al. (U.S. 5,264,129). Simpson teaches a layer 14 including bacteria (biomaterial) for producing schmutzdecke. It is considered that it would have been obvious to have the biomaterial 14 of Simpson in any of the above, since Simpson teaches the benefit of decreasing the time for the formation of a bacterial treating layer.
- 6. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of the rejections in sections 2 or 4 above, and in further view of Tucker (U.S. 6,314,676). Tucker teaches a prefilter 21 that contains an inoculation of biomaterial (bacteria). It is considered that it would have been obvious to have the filter 21 of Tucker in at least the top container in any of the rejections in sections 2 or 4, since Tucker teaches the benefit of inoculating other filters to provide treatment. Upon placement of the prefilters within the container, such would be considered a cassette. It would have been obvious to the skilled man for the cassette to be openable in order to refill as necessary.

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## Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Terry K. Cecil whose telephone number is (571) 272-1138. The examiner can normally be reached on 8:00a-4:30p M-F..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Sample can be reached on (571) 272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mr. Terry K. Cecil/ Primary Examiner, Art Unit 1797

tkc